OIPE
IAP55
JAN 20 2006
PATENT & TRADEMARK OFFICE

IFW

PTO/SB/21 (09-04)
Approved for use through 07/31/2006. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

TRANSMITTAL FORM

(to be used for all correspondence after initial filing)

Application Number	09/654,801
Filing Date	September 5, 2000
First Named Inventor	Zamir Oren
Art Unit	2141
Examiner Name	Paul H. Kang
Attorney Docket Number	68393-3-5
Total Number of Pages in This Submission	59

ENCLOSURES *(Check all that apply)*

- ☐ Fee Transmittal Form
  - ☐ Fee Attached
- ☐ Amendment/Reply
  - ☐ After Final
  - ☐ Affidavits/declaration(s)
- ☐ Extension of Time Request
- ☐ Express Abandonment Request
- ☐ Information Disclosure Statement
- ☐ Certified Copy of Priority Document(s)
- ☐ Reply to Missing Parts/ Incomplete Application
  - ☐ Reply to Missing Parts under 37 CFR 1.52 or 1.53

- ☐ Drawing(s)
- ☐ Licensing-related Papers
- ☒ Petition
- ☐ Petition to Convert to a Provisional Application
- ☐ Power of Attorney, Revocation Change of Correspondence Address
- ☐ Terminal Disclaimer
- ☐ Request for Refund
- ☐ CD, Number of CD(s) ____________
  - ☐ Landscape Table on CD

- ☐ After Allowance Communication to TC
- ☐ Appeal Communication to Board of Appeals and Interferences
- ☐ Appeal Communication to TC **(Appeal Notice, Brief, Reply Brief)**
- ☐ Proprietary Information
- ☐ Status Letter
- ☒ Other Enclosure(s) (please Identify below):

return postcard

Remarks

A copy of the Amendment, (2) Terminal Disclaimers, Petition for 3 month Extension, Change of Correspondence Address and stamped postcard received from USPTO filed on September 23, 2005 are also included.

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm Name	Davis Wright Tremaine LLP		
Signature			
Printed name	Seth D. Levy		
Date	January 17, 2006	Reg. No.	44,869

CERTIFICATE OF TRANSMISSION/MAILING

I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below:

Signature			
Typed or printed name	Seth D. Levy	Date	January 17, 2006

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and1.14. This collection is estimated to 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

O I P E
IAP55
JAN 2 0 2006
PATENT & TRADEMARK OFFICE

PATENT

I hereby certify that on the date specified below, this correspondence is being deposited with the United States Postal Service as first-class mail in an envelope addressed to the Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

January 17, 2006
Date

Seth D. Levy

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants : Zamir Oren *et al.*
Application No. : 09/654,801
Filed : September 5, 2000
For : SYSTEM AND METHOD FOR REAL-TIME ALERTS

Examiner : Paul H. Kang
Art Unit : 2141
Docket No. : 68393-3-5
Date : January 17, 2006

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

PETITION FOR WITHDRAWAL OF IMPROPER HOLDING OF ABANDONMENT UNDER 37 CFR 1.181

On December 15, 2005, the U. S. Patent and Trademark Office issued a Notice of Abandonment for the following reason: "Applicant's failure to timely file a proper reply to the Office letter mailed on <u>28 March 2005</u>." The Notice of Abandonment was sent to Merchant & Gould, LLP, the previous counsel of record. Applicants submit that this abandonment is erroneous, as a timely reply, which included an Amendment, a request for a Change of Correspondence Address, two Terminal Disclaimers, and a petition for a three-month extension of time was timely filed on September 23, 2005. Further, a self-addressed return postcard that was stamped with the date September 26, 2005 by the United States Patent and Trademark Office was received by the Applicants. Copies of the documents that were filed on September 23, 2005, as well as a copy of the self-addressed postcard received from the United States Patent and Trademark Office stamped with the date September 26, 2005 are attached.

Applicants therefore request that the Notice of Abandonment be withdrawn and the case allowed to continue pending.

If questions remain regarding this application, the Examiner is invited to contact the undersigned at (213) 633-6800.

Respectfully submitted,
Oren Zamir *et al.*
DAVIS WRIGHT TREMAINE LLP

By ____________________
Seth D. Levy
Registration No. 44,869

Attachments: Papers filed on Sept. 23, 2005
Copy of Stamped Postcard received from USPTO

Enclosure: Postcard

865 South Figueroa Street
Suite 2400
Los Angeles, CA 90017
Phone: (213) 633-6800
Fax: (213) 633-6899

S.N. 09/654,801 File No. 68393-3 Date Mailed 9-23-05 By:
Title: SYSTEM AND METHOD FOR REAL-TIME ALERTS
(Client Name) Retegence Corp.
The Following, due 9-28-05 in the U.S. Patent & Trademark Office was received in the Patent & Trademark Office on the date stamped hereon:

X Amendment
___ Preliminary Amendment
___ Copy of Notice to File Missing Parts
___ Response to Notice to File Missing Parts
___ Application for Patent Including
___ Pages Spec. ___ Page Abstract. ___ Claims
___ Declaration, Affidavit of Oath (___ Page(s))
___ Assignment and Recordation Cover Sheet
___ Power of Attorney
X Letter of Transmittal
X Fee Transmittal
___ Application Data Sheet
X CHANGE OF CORRESPONDENCE ADDRESS
X 2 TERMINAL DISCLAIMERS

Drawings; # of Sheets ___
___ Formal ___ Informal
___ Issue Fee Transmittal
___ Letter Re ___
___ Notice of Appeal
X Petition for 3 mo. EXTENSION
___ Advance soft copy order
___ CK. No. ___ for $___
___ Certified Copy; # ___ of Docs
___ IDS; ___ References
___ Certificate of Express Mail

S.N. 09/654,801 File No. 68393-3 Date Mailed 9-23-05 By:
Title: SYSTEM AND METHOD FOR REAL-TIME ALERTS
(Client Name) Retegence Corp.
The Following, due 9-28-05 in the U.S. Patent & Trademark Office was received in the Patent & Trademark Office on the date stamped hereon:

X Amendment
___ Preliminary Amendment
___ Copy of Notice to File Missing Parts
___ Response to Notice to File Missing Parts
___ Application for Patent Including
___ Pages Spec. ___ Page Abstract. ___ Claims
___ Declaration, Affidavit of Oath (___ Page(s))
___ Assignment and Recordation Cover Sheet
___ Power of Attorney
X Letter of Transmittal
X Fee Transmittal
___ Application Data Sheet
X CHANGE OF CORRESPONDENCE ADDRESS
X 2 TERMINAL DISCLAIMERS

Drawings; # of Sheets ___
___ Formal ___ Informal
___ Issue Fee Transmittal
___ Letter Re ___
___ Notice of Appeal
X Petition for 3 mo. EXTENSION
___ Advance soft copy order
___ CK. No. ___ for $___
___ Certified Copy; # ___ of Docs
___ IDS; ___ References
___ Certificate of Express Mail

PTO/SB/21 (09-04)
Approved for use through 07/31/2006. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

OIPE
JAN 20 2006
PATENT & TRADEMARK OFFICE

TRANSMITTAL FORM

(to be used for all correspondence after initial filing)

Total Number of Pages in This Submission

Application Number	09/654,801
Filing Date	September 5, 2000
First Named Inventor	Oren Zamir
Art Unit	2141
Examiner Name	Paul H. Kang
Attorney Docket Number	68393-3

ENCLOSURES *(Check all that apply)*

- ☒ Fee Transmittal Form
  - ☐ Fee Attached
- ☒ Amendment/Reply
  - ☐ After Final
  - ☐ Affidavits/declaration(s)
- ☒ Extension of Time Request
- ☐ Express Abandonment Request
- ☐ Information Disclosure Statement
- ☐ Certified Copy of Priority Document(s)
- ☐ Reply to Missing Parts/ Incomplete Application
  - ☐ Reply to Missing Parts under 37 CFR 1.52 or 1.53
- ☐ Drawing(s)
- ☐ Licensing-related Papers
- ☐ Petition
- ☐ Petition to Convert to a Provisional Application
- ☒ Power of Attorney, Revocation Change of Correspondence Address
- ☒ Terminal Disclaimer (2)
- ☐ Request for Refund
- ☐ CD, Number of CD(s) ____________
  - ☐ Landscape Table on CD
- ☐ After Allowance Communication to TC
- ☐ Appeal Communication to Board of Appeals and Interferences
- ☐ Appeal Communication to TC **(Appeal Notice, Brief, Reply Brief)**
- ☐ Proprietary Information
- ☐ Status Letter
- ☒ Other Enclosure(s) (please Identify below):

return postcard

Remarks

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm Name	Davis Wright Tremaine LLP		
Signature			
Printed name	Seth D. Levy		
Date	September 23, 2005	Reg. No.	44,869

CERTIFICATE OF TRANSMISSION/MAILING

I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below:

Signature			
Typed or printed name	Seth D. Levy	Date	September 23, 2005

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and1.14. This collection is estimated to 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: **Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

PTO/SB/22 (12-04)
Approved for use through 07/31/2006. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARMENT OF COMMERCE

PETITION FOR EXTENSION OF TIME UNDER 37 CFR 1.136(a)
FY 2005
(Fees pursuant to the Consolidated Appropriations Act, 2005 (H.R. 4818).)

Docket Number (Optional) 68393-3

Application Number 09/654,801

Filed September 5, 2000

For SYSTEM AND METHOD FOR REAL-TIME ALERTS

Art Unit 2141

Examiner Paul H. Kang

This is a request under the provisions of 37 CFR 1.136(a) to extend the period for filing a reply in the above identified application.

The requested extension and fee are as follows (check time period desired and enter the appropriate fee below):

	Fee	Small Entity Fee	
☐ One month (37 CFR 1.17(a)(1))	$120	$60	$
☐ Two months (37 CFR 1.17(a)(2))	$450	$225	$
☒ Three months (37 CFR 1.17(a)(3))	$1020	$510	$ 510.00
☐ Four months (37 CFR 1.17(a)(4))	$1590	$795	$
☐ Five months (37 CFR 1.17(a)(5))	$2160	$1080	$

☒ Applicant claims small entity status. See 37 CFR 1.27.

☐ A check in the amount of the fee is enclosed.

☐ Payment by credit card. Form PTO-2038 is attached.

☐ The Director has already been authorized to charge fees in this application to a Deposit Account.

☒ The Director is hereby authorized to charge any fees which may be required, or credit any overpayment, to Deposit Account Number 04-0258. I have enclosed a duplicate copy of this sheet.

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

I am the ☐ applicant/inventor.

☐ assignee of record of the entire interest. See 37 CFR 3.71.
Statement under 37 CFR 3.73(b) is enclosed (Form PTO/SB/96).

☒ attorney or agent of record. Registration Number 44,869

☐ attorney or agent under 37 CFR 1.34.
Registration number if acting under 37 CFR 1.34 ____________

Signature

September 23, 2005
Date

Seth D. Levy
Typed or printed name

(213) 633-6869
Telephone Number

NOTE: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required, see below.

☒ Total of 1 forms are submitted.

This collection of information is required by 37 CFR 1.136(a). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 6 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

OIPE IAP55
JAN 2 0 2006

PTO/SB/122 (09-04)
Approved for use through 07/31/2006. OMB 0651-0035
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

CHANGE OF CORRESPONDENCE ADDRESS
Application

Address to:
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Application Number	09/654,801
Filing Date	September 5, 2000
First Named Inventor	Oren Zamir
Art Unit	2141
Examiner Name	Paul H. Kang
Attorney Docket Number	68393-3

Please change the Correspondence Address for the above-identified patent application to:

☑ The address associated with Customer Number: 50670

OR

☐ Firm or Individual Name

Address		
City	State	Zip
Country		
Telephone	Fax	

This form cannot be used to change the data associated with a Customer Number. To change the data associated with an existing Customer Number use "Request for Customer Number Data Change" (PTO/SB/124).

I am the:

- ☐ Applicant/Inventor
- ☐ Assignee of record of the entire interest.
  Statement under 37 CFR 3.73(b) is enclosed. (Form PTO/SB/96).
- ☑ Attorney or agent of record. Registration Number 44,869.
- ☐ Registered practitioner named in the application transmittal letter in an application without an executed oath or declaration. See 37 CFR 1.33(a)(1). Registration Number________.

Signature	
Typed or Printed Name	Seth D. Levy
Date September 23, 2005	Telephone (213) 633-6869

NOTE: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required, see below*.

☑ *Total of 1 forms are submitted.

This collection of information is required by 37 CFR 1.33. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 3 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: **Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

PTO/SB/17 (12-04)
Approved for use through 07/31/2006. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995 no persons are required to respond to a collection of information unless it displays a valid OMB control number

Effective on 12/08/2004.
Fees pursuant to the Consolidated Appropriations Act. 2005 (H.R. 4818).

FEE TRANSMITTAL
For FY 2005

☒ Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT ($) 130.00

Complete if Known

Application Number	09/654,801
Filing Date	September 5, 2000
First Named Inventor	Oren Zamir
Examiner Name	Paul H. Kang
Art Unit	2141
Attorney Docket No.	68393-3

METHOD OF PAYMENT (check all that apply)

☐ Check ☐ Credit Card ☐ Money Order ☐ None ☐ Other (please identify): ____________

☒ Deposit Account Deposit Account Number: 04-0258 Deposit Account Name: Davis Wright Tremaine LLP

For the above-identified deposit account, the Director is hereby authorized to: (check all that apply)

☒ Charge fee(s) indicated below ☐ Charge fee(s) indicated below, **except for the filing fee**

☒ Charge any additional fee(s) or underpayments of fee(s) under 37 CFR 1.16 and 1.17 ☒ Credit any overpayments

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

FEE CALCULATION

1. BASIC FILING, SEARCH, AND EXAMINATION FEES

	FILING FEES		SEARCH FEES		EXAMINATION FEES		
Application Type	**Fee ($)**	**Small Entity Fee ($)**	**Fee ($)**	**Small Entity Fee ($)**	**Fee ($)**	**Small Entity Fee ($)**	**Fees Paid ($)**
Utility	300	150	500	250	200	100	
Design	200	100	100	50	130	65	
Plant	200	100	300	150	160	80	
Reissue	300	150	500	250	600	300	
Provisional	200	100	0	0	0	0	

2. EXCESS CLAIM FEES

Fee Description	**Fee ($)**	**Small Entity Fee ($)**
Each claim over 20 or, for Reissues, each claim over 20 and more than in the original patent	50	25
Each independent claim over 3 or, for Reissues, each independent claim more than in the original patent	200	100
Multiple dependent claims	360	180

Total Claims **Extra Claims** **Fee ($)** **Fee Paid ($)**
______ - 20 or HP = ______ x ______ = ______
HP = highest number of total claims paid for, if greater than 20

Indep. Claims **Extra Claims** **Fee ($)** **Fee Paid ($)**
______ - 3 or HP = ______ x ______ = ______
HP = highest number of independent claims paid for, if greater than 3

Multiple Dependent Claims
Fee ($) ______ **Fee Paid ($)** ______

3. APPLICATION SIZE FEE

If the specification and drawings exceed 100 sheets of paper, the application size fee due is $250 ($125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).

Total Sheets **Extra Sheets** **Number of each additional 50 or fraction thereof** **Fee ($)** **Fee Paid ($)**
______ - 100 = ______ / 50 = ______ (round up to a whole number) x ______ = ______

4. OTHER FEE(S)

	Fees Paid ($)
Non-English Specification, $130 fee (no small entity discount)	
Other: (2) Terminal Disclaimers	130.00

SUBMITTED BY

Signature		Registration No. (Attorney/Agent) 44,869	Telephone (213) 633-6869
Name (Print/Type)	Seth D. Levy		Date September 23, 2005

This collection of information is required by 37 CFR 1.136. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 30 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

PTO/SB/25 (09-04)
Approved for use through 07/31/2006. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

TERMINAL DISCLAIMER TO OBVIATE A PROVISIONAL DOUBLE PATENTING REJECTION OVER A PENDING "REFERENCE" APPLICATION	Docket Number (Optional) 68393-3

In re Application of: Oren Zamir et al.

Application No.: 09/654,801

Filed: September 5, 2000

For: SYSTEM AND METHOD FOR REAL-TIME ALERTS

The owner*, The Relegence Corporation, of 100 percent interest in the instant application hereby disclaims, except as provided below, the terminal part of the statutory term of any patent granted on the instant application which would extend beyond the expiration date of the full statutory term of any patent granted on pending **reference** Application Number 09/655,185, filed on September 5, 2000, as such term is defined in 35 U.S.C. 154 and 173, and as the term of any patent granted on said **reference** application may be shortened by any terminal disclaimer filed prior to the grant of any patent on the pending **reference** application. The owner hereby agrees that any patent so granted on the instant application shall be enforceable only for and during such period that it and any patent granted on the **reference** application are commonly owned. This agreement runs with any patent granted on the instant application and is binding upon the grantee, its successors or assigns.

In making the above disclaimer, the owner does not disclaim the terminal part of any patent granted on the instant application that would extend to the expiration date of the full statutory term as defined in 35 U.S.C. 154 and 173 of any patent granted on said **reference** application, "as the term of any patent granted on said **reference** application may be shortened by any terminal disclaimer filed prior to the grant of any patent on the pending **reference** application," in the event that: any such patent: granted on the pending **reference** application: expires for failure to pay a maintenance fee, is held unenforceable, is found invalid by a court of competent jurisdiction, is statutorily disclaimed in whole or terminally disclaimed under 37 CFR 1.321, has all claims canceled by a reexamination certificate, is reissued, or is in any manner terminated prior to the expiration of its full statutory term as shortened by any terminal disclaimer filed prior to its grant.

Check either box 1 or 2 below, if appropriate.

1. ☐ For submissions on behalf of a business/organization (e.g., corporation, partnership, university, government agency, etc.), the undersigned is empowered to act on behalf of the business/organization.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

2. ☑ The undersigned is an attorney or agent of record. Reg. No. 44,869

Signature

September 23, 2005
Date

Seth D. Levy
Typed or printed name

(213) 633-6869
Telephone Number

☑ Terminal disclaimer fee under 37 CFR 1.20(d) is included.

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

*Statement under 37 CFR 3.73(b) is required if terminal disclaimer is signed by the assignee (owner). Form PTO/SB/96 may be used for making this statement. See MPEP § 324.

This collection of information is required by 37 CFR 1.321. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

OIPE IAP55
JAN 2 0 2006
PATENT & TRADEMARK OFFICE

PTO/SB/26 (09-04)
Approved for use through 07/31/2006. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

TERMINAL DISCLAIMER TO OBVIATE A DOUBLE PATENTING REJECTION OVER A "PRIOR" PATENT	Docket Number (Optional) 68393-3

In re Application of: Oren Zamir et al.

Application No.: 09/654,801

Filed: September 5, 2000

For: SYSTEM AND METHOD FOR REAL-TIME ALERTS

The owner*, The Relegence Corporation, of 100 percent interest in the instant application hereby disclaims, except as provided below, the terminal part of the statutory term of any patent granted on the instant application which would extend beyond the expiration date of the full statutory term **prior patent** No. 6,799,199 as the term of said prior patent is defined in 35 U.S.C. 154 and 173, and as the term of said **prior patent** is presently shortened by any terminal disclaimer. The owner hereby agrees that any patent so granted on the instant application shall be enforceable only for and during such period that it and the **prior patent** are commonly owned. This agreement runs with any patent granted on the instant application and is binding upon the grantee, its successors or assigns.

In making the above disclaimer, the owner does not disclaim the terminal part of the term of any patent granted on the instant application that would extend to the expiration date of the full statutory term as defined in 35 U.S.C. 154 and 173 of the **prior patent**, "as the term of said **prior patent** is presently shortened by any terminal disclaimer," in the event that said **prior patent** later:
expires for failure to pay a maintenance fee;
is held unenforceable;
is found invalid by a court of competent jurisdiction;
is statutorily disclaimed in whole or terminally disclaimed under 37 CFR 1.321;
has all claims canceled by a reexamination certificate;
is reissued; or
is in any manner terminated prior to the expiration of its full statutory term as presently shortened by any terminal disclaimer.

Check either box 1 or 2 below, if appropriate.

1. ☐ For submissions on behalf of a business/organization (e.g., corporation, partnership, university, government agency, etc.), the undersigned is empowered to act on behalf of the business/organization.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

2. ☑ The undersigned is an attorney or agent of record. Reg. No. 44,869

Signature
September 23, 2005
Date

Seth D. Levy
Typed or printed name

(213) 633-6869
Telephone Number

☑ Terminal disclaimer fee under 37 CFR 1.20(d) included.

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

*Statement under 37 CFR 3.73(b) is required if terminal disclaimer is signed by the assignee (owner). Form PTO/SB/96 may be used for making this certification. See MPEP § 324.

This collection of information is required by 37 CFR 1.321. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

OIPE
IAP55
JAN 30 2006
PATENT & TRADEMARK OFFICE

PATENT

I hereby certify that on the date specified below, this correspondence is being deposited with the United States Postal Service as first-class mail in an envelope addressed to the Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

September 23, 2005
Date

Seth D. Levy

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Oren ZAMIR *et al.*
Application No. : 09/654,801
Filed : September 5, 2000
For : SYSTEM AND METHOD FOR REAL-TIME ALERTS

Examiner : Paul H. KANG
Art Unit : 2141
Docket No. : 68393-3
Date : September 23, 2005

MS Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

AMENDMENT

Commissioner for Patents:

In response to the Office Action dated March 28, 2005, please extend the period of time for response three months to expire on September 28, 2005. Enclosed are a Petition for an Extension of Time and the required fee. Please amend the application as shown on the attached pages.

AMENDMENT TO THE CLAIMS

1. (Currently Amended) A method for real time alert, ~~said method~~ comprising the steps of:

receiving an information packet~~;~~, said information packet~~s~~ either provided by an information source or representative of a portion of a received signal provided by an information source;

extracting at least one extracted term out of the information packet;

determining whether an extracted term out of said at least one extracted term matches an alert term within an alert criteria, and accordingly updating a matching term information representative of a reception of matching extracted terms, ~~an alert criteria comprising of at least one alert term,~~ said matching term information being stored in a storage means that is configured to allow fast insertion and fast deletion of content;

processing at least a portion of the matching extracted term information to determine whether to issue an alert; and

issuing at least one alert to at least one client system, according to said determination~~.~~,

wherein the alert comprises at least one field selected from the group consisting of:

an information source identifier field,

a link field, and

an information source category identification.

2. (Currently Amended) The method of claim 1, wherein the processing at least a portion of the matching extracted term information is determined by at least one alert ~~criteria~~ criterion.

3. (Currently Amended) The method of claim 2, wherein the at least one alert ~~criteria~~ criterion ~~comprising~~ comprises ~~of~~ at least one alert term that ~~matched~~ matches the at least one matching extracted term.

4. (Currently Amended) The method of claim 1, wherein the matching term information representative of a reception of matching extracted terms is updated during a predetermined period of time.

5. (Currently Amended) The method of claim 1, further comprising the steps of:

storing the information packet and related control data in the storage means; and

linking between the stored information packet and the matching extracted term information.

6. (Currently Amended) The method of claim 1, wherein the storage means holds an index data structure.

7. (Currently Amended) The method of claim 1, wherein the step of processing is preceded by at least one preprocessing step selected from ~~a~~ the group consisting of :

adding control data to said information packet~~;~~,

filtering the information packet~~;~~,

processing an extracted term by adding control information to said extracted term~~;~~, and

filtering the extracted term, wherein said filtered extracted terms are matched against alert terms.

8. (Currently Amended) The method of claim 1, wherein ~~an~~ the extracted term is extracted out of ~~an~~ the information packet by parsing and stemming the information packet; and wherein the step of filtering further ~~comprising~~ comprises a step selected from ~~a~~ the group consisting of : (a) discarding a term constructed of a one-letter word; (b) discarding a term constructed of a frequently used word; (c) discarding ~~said~~ a term constructed of a stop-word; and (d) discarding ~~said~~ a term constructed of a predefined word.

9. (Currently Amended) The method of claim 1, ~~wherein a deletion of an~~ further comprising deleting the information packet; ~~is followed by a step of~~ and deleting the linked matching extracted term information.

10. (Currently Amended) The method of claim 1, wherein the alert term~~s~~ and associated matching extracted term information are stored in an alert terms hash;
wherein alert criteria are stored in an alert criteria map; and
wherein the linked information packets are stored in a message hash.

11. (Currently Amended) The method of claim 10, wherein ~~a~~ the matching extracted term information is associated to a single matching extracted term comprising ~~of~~ at least one information field selected from ~~a~~ the group consisting of:

a last modification time field, indicating a most recent time of reception of the matching extracted term, during a predetermined period of time~~;~~,

a number of channels containing term, indicating a number of information sources that provided the matching extracted term during a predetermined period of time~~;~~,

a total instances field, indicating a total amount of receptions of the matching extracted term during a predetermined period of time~~;~~, and

a terms inverted entries map, comprising ~~of~~ a plurality of matching terms inverted file entries, each entry holding information representative of a reception of the matching extracted term from a single information source during a predetermined period of time.

12. (Currently Amended) The method of claim 11, wherein each matching term inverted file entry ~~comprising of~~ comprises at least one field selected from ~~a~~ the group consisting of :

a channel identifier, for identifying the information source that provided the matching extracted term during a predetermined period of time~~;~~,

an instances number, for indicating a total amount of receptions of the matching extracted term from an information source during a predetermined period of time~~;~~, and

a time of last appearance, for indicating a most recent time of reception of the matching extracted term from an information source during a predetermined period of time.

13. (Currently Amended) The method of ~~step~~ claim 12, wherein each information packet is further associated to a message terms key map, said message terms key map comprising ~~of~~ a plurality of message characteristic entries, each message characteristic entry associated to a matching extracted term being extracted from the information packet, said message characteristic entry comprising ~~of~~ at least one ~~of the following~~ field~~s~~ selected from ~~a~~ the group consisting of:

a term inverted file, for pointing to the matching extracted term information~~;~~,

an instance of number, for indicating a number of times said matching extracted term appeared in the information packet~~;~~, and

an inverted file entry, for pointing to a terms inverted file entry.

14. (Currently Amended) The method of claim 9, wherein ~~a~~ the step of deleting ~~an~~ the information packet further comprises ~~of~~ the steps of:

receiving an information packet identification~~, whereas matching extracted term information representative of a reception of matching terms extracted from the information packets is to be deleted~~;

reading the information packet identification from the messages hash table;

obtaining relevant entries of said matching extracted terms belonging to said information packet; and

accessing ~~said~~ a matching extracted terms inverted file for each of said matching extracted terms entry pointed to by said terms inverted file.

15. (Currently Amended) The method of claim 14, wherein the step of deleting further ~~comprising~~ comprises ~~a~~ the step of decreasing a value of said total instances by a value of said instances number for each of said matching extracted terms entry pointed to by said terms inverted file.

16. (Currently Amended) The method of ~~step~~ claim 9, wherein ~~a~~ the step of deleting further ~~comprising a step of~~ comprises deleting an extracted term by a garbage collection process; and canceling a link between said term in said terms hash table and said terms inverted file.

17. (Currently Amended) The method of claim 1, wherein ~~an~~ the information source is selected from ~~a~~ the group consisting of: data network providers, chat channels providers, news providers, and music providers.

18. (Currently Amended) The method of claim 1, wherein the information packet~~s~~ comprises ~~of~~ content selected from ~~a~~ the group consisting of: text, audio, video, multimedia, and executable code streaming media.

19. (Currently Amended) The method of claim 1, wherein the step of processing further ~~involves a step of~~ comprises computing a similarity between an alert ~~criteria~~ criterion and matching term extracted information indicating a reception of ~~a~~ ~~the~~ group of at least one matching information packet.

20. (Currently Amended) The method of claim 19, wherein the group of at least one information packet ~~comprising~~ comprises of at least one information packet received from a single information source.

21. (Currently Amended) The method of claim 19, wherein the similarity reflects at least one of the following parameters :

a total amounts of extracted terms being received from at least one information source during a predefined time interval;

a number of matching extracted terms being received from at least one information source during the predefined time interval;

a total number of information sources being searched during the predefined time interval;

an elapsed time since a last appearance of a matching extracted term from an information source during the predefined time interval;

a position of matching extracted terms in at least one information source;

an extracted term in proximity to a matching extracted term;

a part of speech of a matching extracted term; and

a matching extracted term frequency and importance in a language of the information source.

22. (Currently Amended) The method of claim 1, wherein the step of processing implements a matching technique selected from ~~a~~ the group consisting of :

Boolean based matching~~;~~,
probabilistic matching~~;~~,
fuzzy matching~~;~~,
proximity matching~~;~~, and
vector based matching.

23. (Currently Amended) The method of claim 1, wherein the step of processing implements complex matching techniques.

24. (Currently Amended) The method of claim 1, wherein the step of issuing an alert further ~~comprising a step of~~ comprises determining to which client system to send an alert.

25. (Currently Amended) The method of claim 1, wherein the step of issuing an alert further ~~comprising a step of~~ comprises:

determining a format of an alert to be sent to a client system, according to a predefined client system format; and

formatting the alert according to said client system format.

26. (Currently Amended) The method of claim 25, wherein said predetermined client format is selected from ~~a~~ the group consisting of :

HTML format~~;~~,
WAP format~~;~~,
PDA compatible format~~;~~,
Digital television compatible format~~;~~,
electronic mail format~~;~~, and
multimedia stream format.

Claim 27 (Canceled).

28. (Currently Amended) The method of claim ~~27~~ 1, wherein ~~an~~ the link field allows the at least one client system to receive additional information ~~is~~ selected from ~~a~~ the group consisting of:

a multimedia stream originated by said information source~~;~~,

a stream of information packets originated by said information source~~;~~,

a multimedia stream associated to the information packet from which the extracted term was extracted~~;~~,

a stream of information packets, comprising the extracted term.

29. (Currently Amended) The method of claim ~~27~~ 1, wherein ~~a~~ the at least one client system is configured to generate a unique information source category indication in response to a reception of said information source category identification; and wherein ~~a~~ the at least one client system is configured ~~to and~~ to generate a unique information source indication and in response to a reception of said information source identification.

30. (Currently Amended) A method for real time alert, said method comprising the steps of :

receiving an information packet~~;~~, said information packets either provided by an information source or representative of a portion of a received signal provided by an information source;

extracting at least one extracted term out of the information packet;

determining whether an extracted term out of said at least one extracted term matches an alert term within an alert criteria, and accordingly updating a matching extracted term information representative of a reception of matching extracted terms during a predetermined period of time~~, an alert criteria comprising of at least one alert term~~;

processing at least a portion of the matching extracted term information to determine whether to issue an alert; and

issuing at least one alert to at least one client system, according to said determination~~.~~,

wherein the alert comprises at least one field selected from the group consisting of:

an information source identifier field,
a link field, and
an information source category identification.

31. (Currently Amended) The method of claim 30, wherein the processing at least a portion of the matching extracted term information is determined by at least one alert ~~criteria~~ criterion.

32. (Currently Amended) The method of claim 31, wherein the at least one alert ~~criteria comprising of~~ criterion comprises at least one alert term that ~~matched~~ matches the at least one matching extracted term.

33. (Currently Amended) The method of claim 30, wherein the matching term information representative of a reception of matching extracted terms is updated during a predetermined period of time.

34. (Currently Amended) The method of claim 30, further comprising the steps of :

storing the information packet and related control data in a storage means; and

linking between the stored information packet and the matching extracted term information.

35. (Currently Amended) The method of claim 30, ~~wherein a deletion of an~~ further comprising deleting the information packet; and ~~is followed by a step of~~ deleting the linked extracted term information.

36. (Currently Amended) The method of claim 34, wherein the alert terms and associated matching term information are stored in an alert hash, the alert criteria are stored in an alert criteria map, and the linked information packet is stored in a message hash.

37. (Currently Amended) The method of claim 36, wherein ~~a~~ the matching extracted term information is associated to a single matching extracted term comprising ~~of~~ at least one information field selected from ~~a~~ the group consisting of:

a last modification time field, indicating a most recent time of reception of the matching extracted term, during a predetermined period of time;

a number of channels containing term, indicating a number of information sources that provided the matching extracted term during a predetermined period of time;

a total instances field, indicating a total amount of receptions of the matching extracted term during a predetermined period of time; and

a terms inverted entries map, comprising ~~of~~ a plurality of terms inverted file entries, each entry holding information representative of a reception of the matching extracted term from a single information source during a predetermined period of time.

38. (Currently Amended) The method of claim 37, wherein each inverted file entry ~~comprising of~~ comprises at least one field selected from ~~a~~ the group consisting of :

a channel identifier, for identifying the information source that provided the matching extracted term during a predetermined period of time~~;~~,

an instances number, for indicating a total amount of receptions of the matching extracted term from an information source during a predetermined period of time~~;~~, and

a time of last appearance, for indicating a most recent time of reception of the matching extracted term from an information source during a predetermined period of time.

39. (Currently Amended) The method of ~~step~~ claim 38, wherein each information packet is further associated to a message terms key map, said message terms key map comprising ~~of~~ a plurality of message characteristic entries, each message characteristic entry associated to a matching extracted term being extracted from the information packet, said message characteristic entry comprising ~~of~~ at least one ~~of the following~~ field~~s~~ selected from ~~a~~ the group consisting of :

a term inverted file, for pointing to the matching extracted term information;

an instance of number, for indicating a number of times said matching extracted term appeared in the information packet; and

an inverted file entry, for pointing to a terms inverted file entry.

40. (Currently Amended) The method of claim 30, wherein the step of determining whether to issue an alert is based upon a parameter selected from ~~a~~ the group consisting of :

a total amounts of extracted terms being received from at least one information source during a predefined time interval~~;~~,

a number of relevant extracted terms being received from at least one information source during the predefined time interval~~;~~,

a total number of information sources being searched during the predefined time interval~~;~~,

an elapsed time since a last appearance of a relevant extracted term from an information source during the predefined time interval~~;~~,

a position of relevant extracted terms in at least one information source; extracted term in proximity to a relevant extracted term~~;~~,

a part of speech of a relevant extracted term~~;~~, and

a relevant extracted term frequency and importance in a language of the information source.

41. (Currently Amended) The method of claim 30, wherein the step of processing implements a matching technique selected from ~~a~~ the group consisting of :

Boolean based matching~~;~~,
probabilistic matching~~;~~,
fuzzy matching~~;~~,
proximity matching~~;~~, and
vector based matching.

42. (Currently Amended) The method of claim 30, wherein the step of processing implements complex matching techniques.

43. (Currently Amended) The method of claim 30, wherein the step of processing further ~~involves a step of~~ comprises computing a similarity between an alert criteria and information indicating a reception of a group of at least one matching information packet.

44. (Currently Amended) The method of claim 40, wherein the group of at least one information packet ~~comprising of~~ comprises at least one information packet received from a single information source.

45. (Currently Amended) A method for real time alert, said method comprising the steps of :

receiving an information packet; said information packets either provided by an information source or representative of a portion of a received signal provided by an information source;

extracting at least one extracted term out of the information packet;

determining whether an extracted term out of said at least one extracted term matches an alert term within an alert criteria, and accordingly updating a matching extracted term information representative of a reception of matching extracted terms~~, an alert criteria comprising of at least one alert term~~;

processing at least a portion of the matching extracted term information to determine whether to issue an alert, in response to a reception of a matching extracted term; and

issuing at least one alert to at least one client system, according to said determination~~.~~,

wherein the alert comprises at least one field selected from the group consisting of:

an information source identifier field,
a link field, and
an information source category identification.

46. (Currently Amended) The method of claim 45, wherein the processing at least a portion of the matching extracted term information is determined by at least one alert ~~criteria~~ criterion.

47. (Currently Amended) The method of claim 46, wherein the at least one alert ~~criteria comprising of~~ criterion comprises at least one alert term that ~~matched~~ matches the at least one matching extracted term.

48. (Currently Amended) The method of claim 45, wherein the matching term information representative of a reception of matching extracted terms is updated during a predetermined period of time.

49. (Currently Amended) The method of claim 45, wherein the matching extracted term information is representative of a reception of matching extracted terms during a predetermined period of time, and wherein said matching term information ~~being~~ is stored in a storage means that is configured to allow fast insertion and fast deletion of content.

50. (Currently Amended) The method of claim 45, further comprising the steps of :

storing the information packet and related control data in the storage means; and

linking between the stored information packet and the matching extracted term information~~;~~, wherein a deletion of an information packet is followed by a step of deleting the linked extracted term information.

51. (Currently Amended) The method of claim 45, wherein the storage means holds a term index data structure.

52. (Currently Amended) The method of claim 50, wherein alert terms and associated matching extracted terms information are stored in an alert terms hash, alert criteria are stored in an alert criteria map, and the linked matching extracted term information is stored in a message hash.

53. (Currently Amended) The method of claim 45, wherein ~~a~~ the matching extracted term information is associated to a single matching extracted term comprising ~~of~~ at least one information field selected from ~~a~~ the group consisting of:

a last modification time field, indicating a most recent time of reception of the matching extracted term, during a predetermined period of time~~;~~,

a number of channels containing term, indicating a number of information sources that provided the matching extracted term during a predetermined period of time;

a total instances field, indicating a total amount of receptions of the matching extracted term during a predetermined period of time~~;~~, and

a terms inverted entries map, comprising ~~of~~ a plurality of terms inverted file entries, each entry holding information representative of a reception of the matching extracted term from a single information source during a predetermined period of time.

54. (Currently Amended) The method of claim 53, wherein each inverted file entry ~~comprising of~~ comprises at least one field selected from ~~a~~ the group consisting of :

a channel identifier, for identifying the information source that provided the matching extracted term during a predetermined period of time~~;~~,

an instances number, for indicating a total amount of receptions of the matching extracted term from an information source during a predetermined period of time~~;~~, and

a time of last appearance, for indicating a most recent time of reception of the matching extracted term from an information source during a predetermined period of time.

55. (Currently Amended) The method of ~~step 55~~ claim 45, wherein each information packet is further associated to a message terms key map, said message terms key map comprising ~~of~~ a plurality of message characteristic entries, each message characteristic entry associated to a matching extracted term being extracted from the information packet, said message characteristic entry comprising ~~of~~ at least one ~~of the following~~ field~~s~~ selected from ~~a~~ the group consisting of :

a term inverted file, for pointing to the matching extracted term information~~;~~,

an instance of number, for indicating a number of times said matching extracted term appeared in the information packet~~;~~, and

an inverted file entry, for pointing to a terms inverted file entry.

56. (Currently Amended) The method of claim 50, wherein ~~a~~ the step of deleting ~~an~~ the information packet further comprises ~~of~~ the steps of:

receiving an information packet identification~~, whereas matching extracted term information representative of a reception of matching terms extracted from the information packets is to be deleted~~;

reading the information packet identification from the messages hash table in said terms index data structure;

obtaining relevant entries of said extracted terms belonging to said information packet in said messages data; and accessing said terms inverted file for each of said terms entry pointed to by said terms inverted file.

57. (Currently Amended) The method of claim 45, wherein the step of processing further ~~involves a step of~~ comprises computing a similarity between an alert criteria and information indicating a reception of a group of at least one matching information packet.

58. (Currently Amended) The method of claim 57, wherein the group of at least one matching information packet ~~comprising of~~ comprises at least one information packet received from a single information source.

59. (Currently Amended) The method of claim 57, wherein the similarity reflects at least one of the following parameters :

a total amounts of extracted terms being received from at least one information source during a predefined time interval;

a number of matching extracted terms being received from at least one information source during the predefined time interval;

a total number of information sources being searched during the predefined time interval;

an elapsed time since a last appearance of a matching extracted term from an information source during the predefined time interval;

a position of matching extracted terms in at least one information source;
extracted term in proximity to a relevant extracted term;

a part of speech of a matching extracted term; and

a relevant extracted term frequency and importance in a language of the information source.

60. (Currently Amended) The method of claim 45, wherein the step of processing implements a matching technique selected from ~~a~~ the group consisting of:

~~boolean~~ Boolean based matching~~;~~,

probabilistic matching~~;~~,
fuzzy matching~~;~~,
proximity matching~~;~~, and
vector based matching.

61. (Currently Amended) The method of claim 45, wherein the step of processing implements complex matching techniques.

62. (Currently Amended) The method of claim 45, wherein the step of issuing an alert further ~~comprising the steps of~~ comprises:

determining to which client system to send an alert~~.~~;

determining a format of an alert to be sent to a client system, according to a predefined client system format; and

formatting the alert according to said client system format.

Claim 63 (Canceled).

64. (Currently Amended) The method of claim ~~63~~ 45, wherein ~~an~~ the link field allows the at least one client system to receive additional information ~~is~~ selected from ~~a~~ the group consisting of:

a multimedia stream originated by said information source~~;~~,

a stream of information packets originated by said information source~~;~~,

a multimedia stream associated to the information packet from which the extracted term was extracted~~;~~,

a stream of information packets, comprising the extracted term.

65. (Currently Amended) A method for real time alert, said method comprising the steps of :

receiving an information stream, said information stream either provided by an information source or representative of a portion of a received signal provided by an information source;

generating a plurality of information packets from said information stream;

extracting at least one extracted term out of the information packets;

determining whether an extracted term out of said at least one extracted term matches an alert term within an alert criteria, and accordingly updating a matching term information representative of a reception of matching extracted terms~~, an alert criteria comprising of at least one alert term~~;

processing at least a portion of the matching extracted term information to determine whether to issue an alert; and

issuing at least one alert to at least one client system, according to said determination~~.~~,

wherein the alert comprises at least one field selected from the group consisting of:

an information source identifier field,
a link field, and
an information source category identification.

66. (Currently Amended) The method of claim 65, wherein the processing at least a portion of the matching extracted term information is determined by at least one alert ~~criteria~~ criterion.

67. (Currently Amended) The method of claim 66, wherein the at least one alert ~~criteria~~ ~~comprising of~~ criteria comprises at least one alert term that ~~matched~~ matches the at least one matching extracted term.

68. (Currently Amended) The method of claim 65, wherein the matching term information representative of a reception of matching extracted terms is updated during a predetermined period of time.

69. (Currently Amended) The method of claim 65, further comprising the steps of :

storing an information packet and related control data in a storage means; and

linking between the stored information packet and the matching extracted term information.

70. (Currently Amended) The method of claim 65, ~~wherein a deletion of an~~ further comprising deleting the information packet; and ~~is followed by a step of~~ deleting the linked extracted term information.

71. (Currently Amended) The method of claim 65, wherein the alert terms are stored in an alert terms hash, the alert criteria are stored in an alert criteria map, and ~~wherein~~ the linked matching extracted term information is stored in a terms hash.

72. (Currently Amended) The method of claim 65, wherein ~~a~~ the matching extracted term information is associated to a single alert term comprising ~~of~~ at least one information field selected from ~~a~~ the group consisting of:

a last modification time field, indicating a most recent time of reception of the matching extracted term, during a predetermined period of time~~;~~,

a number of channels containing term, indicating a number of information sources that provided the matching extracted term during a predetermined period of time~~;~~,

a total instances field, indicating a total amount of receptions of the matching extracted term during a predetermined period of time~~;~~, and

a terms inverted entries map, comprising ~~of~~ a plurality of terms inverted file entries, each entry holding information representative of a reception of the matching extracted term from a single information source during a predetermined period of time.

73. (Currently Amended) The method of claim 72, wherein each inverted file entry ~~comprising of~~ comprises at least one field selected from ~~a~~ the group consisting of :

a channel identifier, for identifying the information source that provided the matching extracted term during a predetermined period of time~~;~~,

an instances number, for indicating a total amount of receptions of the matching extracted term from an information source during a predetermined period of time~~;~~, and

time of last appearance, for indicating a most recent time of reception of the matching extracted term from an information source during a predetermined period of time.

74. (Currently Amended) The method of ~~step~~ claim 73, wherein each information packet is further associated to a message terms key map, said message terms key map comprising ~~of~~ a plurality of message characteristic entries, each message characteristic entry associated to a matching extracted term being extracted from the information packet, said message characteristic entry comprising ~~of~~ at least one ~~of the following~~ field~~s~~ selected from ~~a~~ the group consisting of :

a term inverted file, for pointing to the matching extracted term information~~;~~,

an instance of number, for indicating a number of times said matching extracted term appeared in the information packet~~;~~, and

an inverted file entry, for pointing to a terms inverted file entry.

75. (Currently Amended) The method of claim 65, wherein the step of determining whether to issue an alert is based upon a parameter out of ~~a~~ the group consisting of :

a total amounts of extracted terms being received from at least one information source during a predefined time interval;

a number of relevant extracted terms being received from at least one information source during the predefined time interval;

a total number of information sources being searched during the predefined time interval;

an elapsed time since a last appearance of a relevant extracted term from an information source during the predefined time interval;

a position of relevant extracted terms in at least one information source; extracted term in proximity to a relevant extracted term;

a part of speech of a relevant extracted term; and

a relevant extracted term frequency and importance in a language of the information source.

76. (Currently Amended) The method of claim 65, wherein the step of processing implements a matching technique selected from ~~a~~ the group consisting of :

Boolean based matching~~;~~,
probabilistic matching~~;~~,
fuzzy matching~~;~~,
proximity matching~~;~~, and
vector based matching.

77. (Currently Amended) The method of claim 65, wherein the step of processing implements complex matching techniques.

78. (Currently Amended) The method of claim 65, wherein the step of processing further ~~involves a step of~~ comprises computing a similarity between an alert criteria and information indicating a reception of a group of at least one matching information packet.

79. (Currently Amended) The method of claim 78, wherein the group of at least one information packet ~~comprising of~~ comprises at least one information packet received from a single information source.

80. (Currently Amended) A method for real time alert, said method comprising the steps of :

receiving an information packet, said information packet either provided by an information source or representative of a portion of a received signal provided by an information source;

extracting at least one extracted term out of the information packet;

determining whether an extracted term out of said at least one extracted term matches an alert term within an alert criteria, and accordingly updating a matching term information representative of a reception of matching extracted terms, ~~an alert criteria comprising of at least one alert term~~;

processing a portion of the matching extracted term information to determine whether to issue an alert~~;~~, said portion representative of a reception of at least one matching information from a single information source; and

issuing at least one alert to at least one client system, according to said determination~~.~~,

wherein the alert comprises at least one field selected from the group consisting of:

an information source identifier field,
a link field, and
an information source category identification.

81. (Currently Amended) The method of claim 80, wherein the processing at least a portion of the matching extracted term information is determined by at least one alert ~~criteria~~ criterion.

82. (Currently Amended) The method of claim 81, wherein the at least one alert ~~criteria comprising of~~ criterion comprises at least one alert term that ~~matched~~ matches the at least one matching extracted term.

83. (Currently Amended) The method of claim 80, wherein the matching term information representative of a reception of matching extracted terms is updated during a predetermined period of time.

84. (Currently Amended) The method of claim 80, further comprising the steps of :

storing an information packet and related control data in a storage means; and

linking between the stored information packet and the matching extracted term information.

85. (Currently Amended) The method of claim 80, ~~wherein a deletion of an~~ further comprises deleting the information packet; and ~~is followed by a step of~~ deleting the linked extracted term information.

86. (Currently Amended) The method of claim 80, wherein alert terms are stored in an alert terms hash, ~~an~~ alert criteria ~~comprising of at least one alert term~~ are stored in an alert criteria map, and wherein the linked matching extracted term information is stored in a terms hash.

87. (Currently Amended) The method of claim 80, wherein the matching extracted term information is associated to a single matching extracted term comprising ~~of~~ at least one information field selected from ~~a~~ the group consisting of:

a last modification time field, indicating a most recent time of reception of the matching extracted term, during a predetermined period of time~~;~~,

a number of channels containing term, indicating a number of information sources that provided the matching extracted term during a predetermined period of time~~;~~,

a total instances field, indicating a total amount of receptions of the matching extracted term during a predetermined period of time~~;~~, and

a terms inverted entries map, comprising ~~of~~ a plurality of terms inverted file entries, each entry holding information representative of a reception of the matching extracted term from a single information source during a predetermined period of time.

88. (Currently Amended) The method of claim 87, wherein each inverted file entry ~~comprising of~~ comprises at least one field selected from ~~a~~ the group consisting of :

a channel identifier, for identifying the information source that provided the matching extracted term during a predetermined period of time~~;~~,

an instances number, for indicating a total amount of receptions of the matching extracted term from an information source during a predetermined period of time~~;~~, and

a time of last appearance, for indicating a most recent time of reception of the matching extracted term from an information source during a predetermined period of time.

89. (Currently Amended) The method of ~~step~~ claim 88, wherein each information packet is further associated to a message terms key map, said message terms key map comprising ~~of~~ a plurality of message characteristic entries, each message characteristic entry associated to a matching extracted term being extracted from the information packet, said message characteristic entry comprising ~~of~~ at least one ~~of the following~~ fields selected from ~~a~~ the group consisting of:

a term inverted file, for pointing to the matching extracted term information~~;~~,

an instance of number, for indicating a number of times said matching extracted term appeared in the information packet~~;~~, and

an inverted file entry, for pointing to a terms inverted file entry.

90. (Currently Amended) The method of claim 80, wherein the step of determining whether to issue an alert is based upon a parameter out of ~~a~~ the group consisting of :

a total amounts of extracted terms being received from at least one information source during a predefined time interval;

a number of relevant extracted terms being received from at least one information source during the predefined time interval;

a total number of information sources being searched during the predefined time interval;

an elapsed time since a last appearance of a relevant extracted term from an information source during the predefined time interval;

a position of relevant extracted terms in at least one information source; extracted term in proximity to a relevant extracted term;

a part of speech of a relevant extracted term; and

a relevant extracted term frequency and importance in a language of the information source.

91. (Currently Amended) The method of claim 80, wherein the step of processing implements a matching technique selected from ~~a~~ the group consisting of :

Boolean based matching~~;~~,
probabilistic matching~~;~~,
fuzzy matching~~;~~,
proximity matching~~;~~, and
vector based matching.

92. (Currently Amended) The method of claim 80, wherein the step of processing implement complex matching techniques.

93. (Currently Amended) A method for real time alert, said method comprising the steps of :

receiving an information stream, said information stream either provided by an information source or representative of a portion of a received signal provided by an information source;

determining whether the information stream ~~comprising of~~ comprises information packets, and if the information stream is not comprised of information packets, then generating a plurality of information packets from said information stream;

extracting at least one extracted term out of the information packet;

determining whether an extracted term out of said at least one extracted term matches an alert term within an alert criteria, and accordingly updating a matching term information representative of a reception of matching extracted terms~~, an alert criteria comprising of at least one alert term~~;

processing at least a portion of the matching extracted term information to determine whether to issue an alert; and

issuing at least one alert to at least one client system, according to said determination~~.~~,

wherein the alert comprises at least one field selected from the group consisting of:

an information source identifier field,
a link field, and
an information source category identification.

94. (Currently Amended) The method of claim 93, wherein the processing at least a portion of the matching extracted term information is determined by at least one alert ~~criteria~~ criterion.

95. (Currently Amended) The method of claim 94, wherein the at least one alert ~~criteria comprising of~~ criterion comprises at least one alert term that ~~matched~~ matches the at least one matching extracted term.

96. (Currently Amended) The method of claim 93, wherein the matching term information representative of a reception of matching extracted terms is updated during a predetermined period of time.

97. (Currently Amended) The method of claim 93, further comprising the steps of :

storing an information packet and related control data in a storage means; and

linking between the stored information packet and the matching extracted term information.

98. (Currently Amended) The method of claim 93, ~~wherein a deletion of an~~ further comprising deleting the information packet; and ~~is followed by a step of~~ deleting the linked extracted term information.

99. (Currently Amended) The method of claim 93, wherein alert terms are stored in an alert terms hash, alert criteria are stored in an alert criteria map, and ~~wherein~~ the linked matching extracted term information is stored in a terms hash.

100. (Currently Amended) The method of claim 93, wherein the matching extracted term information is associated to a single matching extracted term comprising ~~of~~ at least one information field selected from ~~a~~ the group consisting of:

a last modification time field, indicating a most recent time of reception of the matching extracted term, during a predetermined period of time~~;~~,

a number of channels containing term, indicating a number of information sources that provided the matching extracted term during a predetermined period of time~~;~~,

a total instances field, indicating a total amount of receptions of the matching extracted term during a predetermined period of time~~;~~, and

a terms inverted entries map, comprising ~~of~~ a plurality of terms inverted file entries, each entry holding information representative of a reception of the matching extracted term from a single information source during a predetermined period of time.

101. (Currently Amended) The method of claim 100, wherein each inverted file entry ~~comprising of~~ comprises at least one field selected from ~~a~~ the group consisting of :

a channel identifier, for identifying the information source that provided the matching extracted term during a predetermined period of time~~;~~,

an instances number, for indicating a total amount of receptions of the matching extracted term from an information source during a predetermined period of time~~;~~, and

a time of last appearance, for indicating a most recent time of reception of the matching extracted term from an information source during a predetermined period of time.

102. (Currently Amended) The method of ~~step~~ claim 101, wherein each information packet is further associated to a message terms key map, said message terms key map comprising ~~of~~ a plurality of message characteristic entries, each message characteristic entry associated to a matching extracted term being extracted from the information packet, said message characteristic entry comprising ~~of~~ at least one ~~of the following~~ fields selected from ~~a~~ the group consisting of :

a term inverted file, for pointing to the matching extracted term information~~;~~, an instance of number, for indicating a number of times said matching extracted term appeared in the information packet~~;~~, and

an inverted file entry, for pointing to a terms inverted file entry.

103. (Currently Amended) The method of claim 93, wherein the step of determining whether to issue an alert is based upon a parameter out of ~~a~~ the group consisting of :

a total amounts of extracted terms being received from at least one information source during a predefined time interval;

a number of relevant extracted terms being received from at least one information source during the predefined time interval;

a total number of information sources being searched during the predefined time interval;

an elapsed time since a last appearance of a relevant extracted term from an information source during the predefined time interval;

a position of relevant extracted terms in at least one information source; extracted term in proximity to a relevant extracted term;

a part of speech of a relevant extracted term; and

a relevant extracted term frequency and importance in a language of the information source.

104. (Currently Amended) The method of claim 93, wherein the step of processing implements a matching technique selected from ~~a~~ the group consisting of :

Boolean based matching~~;~~,

probabilistic matching~~;~~,

fuzzy matching~~;~~,

proximity matching~~;~~, and

vector based matching.

105. (Currently Amended) The method of claim 93, wherein the step of processing implements complex matching techniques.

106. (Currently Amended) The method of claim 93 wherein the step of processing further ~~involves a step of~~ comprises computing a similarity between an alert criteria and information indicating a reception of a group of at least one matching information packet.

107. (Currently Amended) The method of claim 106, wherein the group of at least one information packet ~~comprising of~~ comprises at least one information packet received from a single information source.

108. (Currently Amended) A system for real time alert, said system comprising ~~of~~:

an information packet processor~~,~~ for receiving an information packet~~;~~ and extracting at least one extracted term out of the information packet~~;~~, said information packet~~s~~ either provided by an information source or representative of a portion of a received signal provided by an information source;

a storage means, configured to allow fast insertion and fast deletion of content, for storing matching term information representative of a reception of matching extracted terms~~, an alert criteria comprising of at least one alert term~~;

a storage means controller~~,~~ coupled to the information packet processor and to the storage means, for receiving the at least one extracted term, for determining whether an extracted term out of said at least one extracted term matches an alert term within an alert criteria, and accordingly for updating the matching term information; and

an alert module~~,~~ coupled to the storage means, for processing at least a portion of the matching extracted term information to determine whether to issue an alert~~;~~, and for issuing at least one alert to at least one client system~~,~~ according to said determination~~.~~,

wherein the alert comprises at least one field selected from the group consisting of:

an information source identifier field,
a link field, and

an information source category identification.

109. (Currently Amended) The system of claim 108, wherein the processing at least a portion of the matching extracted term information is determined by at least one alert ~~criteria~~ criterion.

110. (Currently Amended) The system of claim 109, wherein the at least one alert ~~criteria comprising of~~ criterion comprises at least one alert term that ~~matched~~ matches the at least one matching extracted term.

111. (Currently Amended) The system of claim 106, wherein the matching term information representative of a reception of matching extracted terms is updated during a predetermined period of time.

112. (Currently Amended) The system of claim 108, the storage means controller further adapted to store the information packet and related control data in the storage means, and to link between the stored information packet and the matching extracted term information.

113. (Currently Amended) The system of claim 108, wherein the storage means holds a term index data structure.

114. (Currently Amended) The system of claim 108, wherein the information packet processor is further adapted to perform at least one preprocessing step selected from a the group consisting of: adding control data to said information packet~~;~~, filtering the information packet~~;~~, processing an extracted term by adding control information to said extracted term~~;~~, and filtering the extracted term, wherein said filtered extracted terms are matched against alert terms.

115. (Currently Amended) The system of claim 108, wherein the information packet processor is configured to extract an extracted term from an information packet by parsing and stemming the information packet.

116. (Currently Amended) The system of claim 108, wherein the storage means controller is adapted to delete information packets from the storage means, after a predetermined period has lapsed; and wherein a deletion of an information packet is followed by a deletion of the linked extracted term information.

117. (Currently Amended) The system of claim 108, wherein alert terms and matching terms information are stored in an alert terms hash, alert criteria are stored in an alert criteria map, and wherein the linked information packets are stored in a message hash.

118. (Currently Amended) The system of claim 108, wherein the matching extracted term information ~~comprising of~~ comprises at least one information field selected from ~~a~~ the group consisting of:

a last modification time field, indicating a most recent time of reception of the matching extracted term, during a predetermined period of time~~;~~,

a number of channels containing term, indicating a number of information sources that provided the matching extracted term during a predetermined period of time~~;~~,

a total instances field, indicating a total amount of receptions of the matching extracted term during a predetermined period of time~~;~~, and

a terms inverted entries map, comprising ~~of~~ a plurality of matching terms inverted file entries, each entry holding information representative of a reception of the matching extracted term from a single information source during a predetermined period of time.

119. (Currently Amended) The system of claim 118, wherein each matching term inverted file entry ~~comprising of~~ comprises at least one field selected from ~~a~~ the group consisting of :

a channel identifier, for identifying the information source that provided the matching extracted term during a predetermined period of time~~;~~,

an instances number, for indicating a total amount of receptions of the matching extracted term from an information source during a predetermined period of time~~;~~, and

a time of last appearance, for indicating a most recent time of reception of the matching extracted term from an information source during a predetermined period of time.

120. (Currently Amended) The system of ~~step~~ claim 119, wherein each information packet is further associated to a message terms key map, said message terms key map comprising ~~of~~ a plurality of message characteristic entries, each message characteristic entry associated to a matching extracted term being extracted from the information packet, said message characteristic entry comprising ~~of~~ at least one ~~of the following~~ field~~s~~ selected from ~~a~~ the group consisting of :

a term inverted file, for pointing to the matching extracted term information~~;~~,

an instance of number, for indicating a number of times said matching extracted term appeared in the information packet~~;~~, and

an inverted file entry, for pointing to a terms inverted file entry.

121. (Currently Amended) The system of claim 120, wherein the storage means controller is further adapted to determine a deletion of an information packet and ~~associeted~~ associated matching extracted term information.

122. (Currently Amended) The system of claim ~~106~~ 108, wherein the storage means controller is adapted to access the message hash table, to obtain relevant entries of said matching extracted terms belonging to said information packet; and to access said matching extracted terms inverted file for each said matching extracted terms entry pointed to by said matching extracted terms inverted file.

123. (Currently Amended) The system of claim 108, wherein the alert module is adapted to rank information sources according to a similarity between at least a portion

of information packets provided by said information sources and between an alert criteria.

124. (Currently Amended) The system of claim 108, wherein the said rank is based upon a parameter ~~out of a~~ selected from the group consisting of :

a total amount of extracted terms provided by an information source in a predefined time interval~~;~~,

an elapsed time since the extracted term was provided by the information source in said predefined time interval~~;~~, and

an extracted term position in the information source.

125. (Currently Amended) The system of claim 108, wherein ~~an~~ the information source is selected from ~~a~~ the group consisting of: data network providers, chat channels providers, news providers, and music providers.

126. (Currently Amended) The system of claim 108, wherein information packets comprise ~~of~~ content selected from ~~a~~ the group consisting of : text, audio, video, multimedia, and executable code streaming media..

127. (Currently Amended) The system of claim 108, further adapted to compute a similarity between an alert criteria and information indicating a reception of a group of at least one matching information packet.

128. (Currently Amended) The system of claim 127, wherein the group of at least one information packet ~~comprising of~~ comprises at least one information packet received from a single information source.

129. (Currently Amended) The system of claim 128, wherein the similarity reflects at least one of the ~~following~~ parameters selected from the group consisting of:

a total amounts of extracted terms being received from at least one information source during a predefined time interval;

a number of matching extracted terms being received from at least one information source during the predefined time interval;

a total number of information sources being searched during the predefined time interval;

an elapsed time since a last appearance of a matching extracted term from an information source during the predefined time interval;

a position of matching extracted terms in at least one information source;

an extracted term in proximity to a matching extracted term;

a part of speech of a matching extracted term; and

a matching extracted term frequency and importance in a language of the information source.

130. (Currently Amended) The system of claim 108, wherein the alert module is further adapted to implement a matching technique selected from ~~a~~ the group consisting of :

~~boolean~~ Boolean based matching~~;~~,
probabilistic matching~~;~~,
fuzzy matching~~;~~,
proximity matching~~;~~, and
vector based matching.

131. (Currently Amended) The system of claim 108, wherein the alert module is further adapted to implement complex matching techniques.

132. (Currently Amended) The system of claim 108, wherein the alert module is further adapted to determine to which client system to send an alert.

133. (Currently Amended) The system of claim 108, wherein the alert module is further adapted to determine a format of an alert to be sent to a client system, according to a predefined client system format, and to format~~ting~~ the alert according to said client system format.

134. (Currently Amended) The system of claim 133, wherein said predetermined client format is selected from ~~a~~ the group consisting of :

HTML format~~;~~,
WAP format~~;~~,
PDA compatible format~~;~~,
Digital television compatible format~~;~~,
electronic mail format~~;~~, and
multimedia stream format.

Claim 135 (Canceled).

136. (Currently Amended) The system of claim ~~135~~ 108, wherein ~~an~~ the link field allows the at least one client system to receive additional information ~~is~~ selected from ~~a~~ the group consisting of :

a multimedia stream originated by said information source~~;~~,
a stream of information packets originated by said information source~~;~~,
a multimedia stream associated to the information packet from which the extracted term was extracted~~;~~, and
a stream of information packets, comprising the extracted term.

137. (Currently Amended) The system of claim 136, wherein ~~a~~ the client system is configured to generate a unique information source category indication in response to a reception of said information source category identification.

138. (Currently Amended) The system of claim 108, wherein ~~a~~ the client system is configured to and to generate a unique information source indication in response to a reception of said information source identification.

139. (Currently Amended) The system of claim 108, ~~whereas~~ wherein the information packet processor ~~comprising of~~ comprises at least one module selected from a group of modules consisting of :

a message coordinator module adapted to coordinate an handling of a plurality of information packets;

a message filter module for filtering the plurality of information packets according to predefined rules;

a term extractor module for performing parsing and stemming on said plurality of information packets; and

a terms filter for excluding extracted terms according to predefined rules.

140. (Currently Amended) The system of claim 108, wherein the storage means holds a term index data structure, said term index data structure further comprising:

an alert terms hash table to hold alert terms ;

a matching extracted terms inverted file pointed to by said alert term hash table holding a matching extracted terms inverted entry map;

a messages hash table to hold information packets identification;

a messages data table to hold information packets data; and

a channel map to hold a list of information sources and the related number of index terms of said information source.

141. (Currently Amended) The system of claim 140, wherein the terms inverted file further ~~comprising~~ comprises:

a matching extracted terms inverted entries map table;

a total instances of said matching extracted term;

a number of information sources containing said matching extracted term; and

a last modification time of said matching extracted term.

142. (Currently Amended) The system of claim 141, further comprising:

a message terms keyed map;

an information source identification; and an information packet time of arrival.

143. (Currently Amended) The system of claim 142, wherein the message terms keyed map further ~~comprising~~ comprises:

a pointer to said matching extracted terms inverted file;

an instances number of said matching extracted term in said information packet; and

a pointer to said inverted file entry related to said matching extracted term.

144. (Currently Amended) The system of claim 143, wherein the matching extracted terms inverted entries map further ~~comprising;~~ comprises:

an information source identification;

an instances number of said matching extracted term in said information source informational content; and

a time of last appearance of said matching extracted term in said information source informational content.

145. (Currently Amended) The system of claim 108, wherein the storage means further allows timely deletions of irrelevant or time-decayed terms and query-terms.

146. (Currently Amended) The system of claim 108, further comprising an alert criteria module~~,~~ coupled to the storage means~~,~~ to the storage means controller, and to a plurality of client systems~~,~~ for handling client system requests for~~m~~ updating alert criteria.

147. (Currently Amended) The system of claim 146, wherein the alert criteria module ~~comprising of~~ comprises at least one module selected from ~~a~~ the group consisting of:

an alert criteria coordinator module to coordinate the processing of alert criteria~~;~~,

an alert term extractor to parse and stem incoming alert criteria in order to extract and process operative alert terms~~;~~, and an alert terms filter for excluding specific alert terms in a predefined manner.

148. (Currently Amended) A system for real time alert, said system comprising ~~of~~:

an information packet processor~~,~~ for receiving an information packet~~;~~ and extracting at least one extracted term out of the information packet~~;~~, said information packets either provided by an information source or representative of a portion of a received signal provided by an information source;

a storage means~~,~~ for storing matching term information representative of a reception of matching extracted terms~~, an alert criteria comprising of at least one alert term~~;

a storage means controller~~,~~ coupled to the information packet processor and to the storage means, for receiving the at least one extracted term, for determining whether an extracted term out of said at least one extracted term matches an alert term within an alert criteria, and accordingly for updating the matching term information; and

an alert module~~,~~ coupled to the storage means, for processing at least a portion of the matching extracted term information to determine whether to issue an alert~~;~~, and for issuing at least one alert to at least one client system~~,~~ according to said determination~~;~~,

wherein the alert comprises at least one field selected from the group consisting of:

an information source identifier field,
a link field, and
an information source category identification.

149. (Currently Amended) The system of claim 148, wherein the processing at least a portion of the matching extracted term information is determined by at least one alert ~~criteria~~ criterion.

150. (Currently Amended) The system of claim 148, wherein the at least one alert ~~criteria comprising of~~ criterion comprises at least one alert term that ~~matched~~ matches the at least one matching extracted term.

151. (Currently Amended) The system of claim 148, wherein the matching term information representative of a reception of matching extracted terms is updated during a predetermined period of time.

152. (Currently Amended) The system of claim 148, further comprising an information interface~~,~~ coupled to the information packet processor, said information interface adapted to receive information streams and to provide information packets to the information packet processor.

153. (Currently Amended) The system of claim 148, wherein the information interface is further coupled to the storage means controller, for allowing a storage of said information packets in the storage means.

REMARKS

This amendment is in response to the Office Action, Dated March 28, 2005, ("Office Action"). It is respectfully submitted that the application is in condition for allowance. Claims 1-153 were rejected in the Office Action. Claims 1 to 153 have been amended, claims 27, 63, 135 have been cancelled. Following entry of the present amendment claims 1-26, 28-62, 64-134, 136-153 are pending. No new matter has been added. Allowance and reconsideration of the application in view of Applicants' amendment and the ensuing remarks is respectfully requested.

Claims 1, 30, 45, 65, 80, 93, 108, 148 have been amended to include the limitations of currently canceled claim 27; claims 2-26, 28, 31-44, 46-62, 64, 66-79, 81-92, 94-107, 109-134, 136-147, and 149-153, have been amended to adjust claim dependency and correct obvious typographical errata therein.

Claims 1-154 were provisionally rejected as being obvious over claims 1-136 of co-pending Application Nos. 09/655,185 and 09/654,822. Applicants note that 09/654,822 has been issued as US Patent No. 6,799,199. Applicants respectfully traverse this rejection. However, while Applicants in no way concede that Examiner's rejection is proper, two terminal disclaimers with respect to the co-pending application and the issued patent are included herewith.

Examiner rejected Claims 1-6, 24, 27, 30-34, 45-48, 50, 65-69, 80-84, 93-97, 108-112, and 148-153 under 35 U.S.C. 102(e) as being anticipated by U.S. Patent No. 6,381,594 ("Eichstaedt").

The Examiner found that the Eichstaedt patent "teaches a system and method for real time alert...comprising the steps of: receiving an information packet; said information packets either provided by an information source or representative of a portion of a received signal provided by an information source; extracting at least one extracted term out of the information packet; determining whether an extracted term out of said at least one extracted term matches an alert term, and accordingly updating a matching term information representative of a reception of matching extracted terms, an alert criteria comprising ~~of~~ at least one alert term, said matching term information being stored in a storage means that is configured to allow fast insertion and fast deletion of content; processing at least a portion of the matching extracted term information to determine to issue an alert; and issuing at least one alert to at least one client system, according to said determination," (internal citations omitted) and thus rejected claims 1, 24, 27, 30, 45, 65, 80, 93, 108 and 148. Examiner additionally stated that the Eichstaedt patent "teaches the portion of the matching extracted term information is determined by at least one alert criteria," providing the basis for rejection of claims 2, 3, 31, 32, 46, 47, 66, 67, 81, 82, 94, 95, 109, 110, and 149. Examiner further stated that Eichstaedt teaches "matching during a predetermined period of time," thus meeting the limitations of claims 4, 33, 48, 68, 83, 96, 111, and 150. Examiner also stated that Eichstaedt teaches "a reception of an information packet is followed by the steps of storing the information packet with an associated packet identifier in the storage means, storing extracted term information representative of a reception of at least one extracted term at the storage means, at least one extracted terms extracted from the information packet, and linking between the stored information packet and the extracted term information," which anticipated claims and 5, 34, 50, 69, 94, 97, 112, 148-153. Examiner finally stated that Eichstaedt teaches "a term index data structure" as the storage means, resulting anticipation of claim 6. With respect to claim 27 which has been canceled by virtue of the present amendment, this rejection is rendered moot. With respect to claims 1-6, 24, 30-34, 45-48, 50, 65-69, 80-84, 93-97, 108-112, and 148-153, this rejection is respectfully traversed.

As amended, claims 1-6, 24, 30-34, 45-48, 50, 65-69, 80-84, 93-97, 108-112, and 148-153, describe a method or a system for real time alert. The steps include, *inter alia*, receiving an information packet; extracting a term from the information packet; determining whether the extracted term matches an alert term, and accordingly updating a matching term information representative of a reception of matching extracted terms, an alert criteria comprising at least one alert term; processing at least a portion of the matching extracted term to determine whether to issue an alert; and issuing an alert to a client system, according to the determination, *wherein the alert* *comprises of at least one field selected from the group consisting of an information source identifier field, a link field, and an information source category identification.*

A claim is anticipated only if each and every element as set forth in the claim is found, either expressly or inherently described, in a single prior art reference. MPEP §2131 (citing *Verdegall Bros. v. Union Oil Co. of California*, 814 F.2d 628, 631 (Fed. Cir. 1987)). Furthermore, a patent cannot be relied upon as anticipatory to the extent that the scope of its disclosure does not reasonably suggest those aspects relied upon in the reception. See *Merck & Co. v. Biocraft Laboratories*, 874 F.2d 804, 10USPQ2d 1843 (Fed. Cir.), *cert. denied*, 493 U.S. 975 (1989); MPEP §2123.

The Eichstaedt patent refers generally to a system and method for forming a compact representation of a plurality of user queries to find desired information in an information network and to form a master search query to match the master query with information in a content stream. Eichstaedt specifically stated that its method is contrary to the traditional information retrieval approach of indexing a collection of documents separately for each user query. (See abstract and summary of invention.)

Particularly, Claims 1, 30, 45, 65, 80, 93, 108, and148, have been amended to include limitations relating to the alert to comprise of at least one field selected from the group consisting of: an information source identifier field, a link field, and an information source category identification. Eichstaedt simply "transmits the information retrieved from the search to the appropriate user" and "notification messages are sent to users whose queries have a match…" (Col. 4, lines 53-55; col. 11, lines 27-28). Eichstaedt does not teach an alert comprising a source identifier field, a link field, or an information source category identification. Furthermore, Eichstaedt does not disclose a step of generating information packets from an information stream.

Claims 2-6, 24, 31-34, 46-48, 50, 66-69, 81-84, 94-97, 109-112, and 148-153, depend on and further limit one of the above claims, therefore, they are not anticipated for at least the same reasons.

Additionally, Eichstaedt only generally teaches matching the information content stream to the master search query. (Col. 5 lines 38-43, and col. 9, line 60 to col. 11, line 63.) In contrast, claims 2, 3, 31, 32, 46, 47, 66, 67, 81, 82, 94, 95, 109, 110, and

149 relate to using at least one alert criterion to determine the portion of the matching extracted term information to be processed.

Furthermore, with respect to claims 4, 33, 48, 68, 83, 96, 111, and 150, Eichstaedt does not teach matching during a predetermined period of time, as asserted by Examiner (Col. 11, lines 32-57). Eichstaedt provides for a method utilizing a binary search tree, where the time it takes to complete the operation is a function of the height of the binary search tree. Eichstaedt makes no mention of matching during a predetermined period of time.

Moreover, as to claims 5, 34, 50, 69, 84, 97, 112, 148-153, Eichstaedt only teaches storing the results of the matching operation in the memory, (see col. 4, lines 38-47, col. 9, lines 37-51) and makes no mention of linking between the stored information packet and extracted term information. Moreover, Examiner's use of Eichstaedt as a basis to reject claim 152 is unclear and thus Applicants respectfully request clarification. Nonetheless, claim 152 is dependant on and further limits amended claim 148, and thus should be allowable as well.

Finally, as to claim 6, referencing a term index data structure as a storage means, Eichstaedt only refers to the use of a data tree structure to store user queries (col. 11, lines 32-57), whereas the present invention utilizes alert terms index tables, consisting of two main units, an alert terms hash and an message hash. (See Specification pages 22-23.)

In light of the foregoing remarks, Applicants respectfully submit that claims 1-6, 24, 27, 30-34, 45-48, 50, 65-69, 80-84, 93-97, 108-112, and 148-153, are not anticipated by Eichstaedt (US 6,381,594). Applicants therefore respectfully request that Examiner withdraw this rejection under 35 U.S.C. §102(e).

Claims 7-21, 26-28, 32-33, 35-40, 43, 44, 49, 52-59, 62, 63, 70-75, 85-90, 98-103, 112-114, 116-129, 134-136; were rejected under 35 U.S.C. §103(a) as being unpatentable over Eichstaedt, and further in view of U.S. Patent No. 6,296,368 ("Diamond"). With respect to claims 27, 63, and 135 which have been canceled by virtue of the present amendment, this rejection is rendered moot. With respect to claims

7-21, 26, 28, 32-33, 35-40, 43, 44, 49, 52-59, 62, 70-75, 85-90, 98-103, 112-114, 116-129, 134, and 136, this rejection is respectfully traversed.

Examiner found that Eichstaedt-Diamond teaches the claimed invention and further teaches "the step of matching is preceded by adding control data to the information packets, filtering the plurality of information packets, processing the extracted terms by adding control information to the extracted terms, filtering the extracted terms to generate filtered extracted terms, and storing an extracted term in a term index data structure" because the terms are "parsed, stemmed and filtered to remove certain words."

Examiner continued and stated that Eichstaedt-Diamond teaches "the extracted terms are extracted out of the plurality of information packets by parsing and stemming the plurality of information packets; and wherein the step of filtering further comprises a step selected from a group consisting of discarding the terms constructed of one-letter words, discarding the terms constructed of frequently used words, discarding said terms constructed of stop-word, and discarding the terms constructed of predefined words," because the terms are "parsed, stemmed, and filtered to remove certain stop-words and various other critical words and phrases."

Examiner additionally stated that Eichstaedt-Diamond teaches "a deletion of an information packet is followed by a step of deleting the linked extracted term information," because "when the terms are deleted, all information and data is deleted as well."

Examiner further stated that Eichstaedt-Diamond teaches "the extracted term information comprising of at least one information field selected from a group consisting of a last modification time field,...a number of channels containing term,...a total instances field, ...and terms inverted entries map..." and teaches "each inverted file entry comprising of at least one field selected from a group consisting of a channel identifier, ...instance number,...and time of last appearance, ..." and "each information packet is further associated to a message terms key map, ... comprising of a plurality of message characteristic entries, ... associated to an extracted term being extracted from the information packet, said message characteristic entry comprising of at least one of the following fields selected from a group consisting of a term inverted file, ...an instance of number, ... and an inverted file entry..." because "[m]atch column contains the total number of items the extracted term was found."

Examiner also stated that Eichstaedt-Diamond teaches "using a terms inverted file system to organize the queries, inserting an information source identification where the information source provided the extracted term."

Examiner additionally stated that Eichstaedt-Diamond teaches "wherein an information source is selected from a group consisting of data network providers, chat channels providers, news providers, and music providers; group of text, audio, video, multimedia, and executable code streaming media; wherein the step of matching further involves a step of computing a similarity between a client query and a group of at least one information packet and further wherein the group of at least one information packet comprising of at least one information packet received from a single information source," because "the search processor inherently separates each stream white [sic] it checks them in order to determine the source of the matching information."

Finally, Examiner stated that Eichstaedt-Diamond teaches "the similarity reflects at least one parameter selected from a group..." because, "[t]he search processor inherently separates each stream white [sic] it checks them in order to determine the source of the matching information [and m]atch column contains the total number of times the extracted term was found.

Three basic criteria must be met to establish a prima facie case of obviousness: (1) "there must be some suggestion or motivation...to combine reference teachings," (2) "there must be a reasonable expectation of success," and (3) the prior art references "must teach or suggest all the claim limitations." MPEP §2142.

For the reasons set forth above, Eichstaedt does not teach or suggest all of the claim limitations, as amended.

Furthermore, Diamond provides background information that matching of documents to a query is based on the co-occurrence of words or phrases. Diamond generally teaches the addition of control data and indexing, which involves extracting terms from the text, checking for stop words, processing hyphenated words, and then stemming all inflected terms to a standard form (col. 1, lines 21-36, col. 10, lines 13-19, 32-34, and 40-49). However, Diamond does not disclose filtering the information packets, filtering the extracted terms and matching the filtered extracted terms against the alert terms, or discarding terms as required by claims 7 and 8.

Further, Diamond only teaches a removal of words and phrases from the query processing stream, and thus the removed words and phrases are not used as search terms. In contrast, the present invention relates to the deletion of an information packet, followed by deleting the linked matching extracted term information.

Eichstaedt-Diamond does not teach storing alert criteria in an alert criteria map and storing information packets in a message hash, as claimed in claims 10, 36, 52, 71, 86, 99, and 117. However, Examiner's use of Eichstaedt-Diamond (Eichstaedt, col. 8, lines 12-67), as a basis for rejection of claims 32-33, 62, 112-114, and 121-23, is unclear and thus Applicants respectfully request clarification. Nonetheless, claims 32-33, 62, 112-114, and 121-123 are dependant on and further limits amended claims 30, 45, 108 and 148, and thus should be allowable as well.

Eichstaedt-Diamond merely teaches the use of a match column during processing to indicate when a query in the query ID column matches any incoming information content. (Eichstaedt, col. 9 lines 42-44.) In contrast, claims 11-13, 37-39, 53-55, 72-74, 87-89, 100-102, and 118-120, (wherein a matching extracted term information associated to a single matching extracted term) claim specific fields (e.g., a last modification time field, a number of channels containing term, a total instances field, a terms inverted entries map) and subfields (e.g. a channel identifier, an instances number, a time of last appearance). Furthermore, the information packets of the present invention are further associated to a message terms key map comprising of a plurality of message characteristic entries. Additionally, Examiner's use of Eichstaedt-Diamond (Eichstaedt, col. 9, lines 42-44), as a basis for rejection of claims 49 and 124, is unclear and thus Applicants respectfully request clarification. Nonetheless, claims 49 and 124 are dependant on and further limits amended claims 1 and 108, respectfully, and thus should be allowable as well.

While Diamond teaches the use of a terms inverted file system to organize the terms, it does not teach the steps of deleting an information packet as claimed in claims 14, 15, and 56.

Eichstaedt neither teaches the deletion of an extracted term by a garbage collection process, nor does it teach a deletion of an object in a tree index results in deletion of the links in a linked list structure. Eichstaedt utilizes a binary search tree to implement a search. Moreover, Eichstaedt concedes that if the height of the search tree is large, the performance of searching may be no better than a linked list. (Eichstaedt, col. 11 lines 32-57).

Eichstaedt-Diamond does not teach the format from which an information packet content is selected. (Eichstaed, col. 3 lines 30-54) The present invention identifies that the content may be selected from text, audio, video, multimedia, and executable code streaming media. Eichstaedt simply teaches that a master query is matched with incoming information stream, and does not teach the method of matching, such as computing a similarity between a client query and a group of information packets, as presented by the claims of the present patent application. (Eichstaedt, col. 4 lines 38-47).

Eichstaedt's search processor may inherently separate each information stream and the match column may contain the total number of times a keyword was present in the information stream. However, Eichstaedt does not teach having parameters, such as total amount of extracted terms, number of relevant extracted terms, total number of information sources, position of relevant extracted terms, extracted term's proximit to a relevant extracted term, part of speech of a relevant extracted term and matching extracted term frequency and importance in language, to determine the similarity between a client query and a group of information packets.

In light of the foregoing remarks, Applicants respectfully submit that claims 7-21, 26, 28, 32-33, 35-40, 43, 44, 49, 52-59, 62, 70-75, 85-90, 98-103, 112-114, 116-129, 134, and 136 are <u>not</u> unpatentable over Eichstaedt (US 6,381,594), in view of Diamond (US 6,269,368). Applicants therefore respectfully request that Examiner reconsider and withdraw this rejection under 35 U.S.C. §103(a).

Claims 22, 23, 41, 42, 51, 60, 61, 76-79, 91, 92, 104-107, 130, 131, 137-147, were rejected under 35 U.S. C. §103(a) as being unpatentable over Eichstaedt-Diamond, and further in view of U.S. Patent No. 6,574,632 ("Fox").

Examiner stated that Fox "teaches complex matching techniques including: probabilistic matching, fuzzy matching, proximity matching, and vector based matching." Examiner stated that "implementing the numerous matching techniques of Fox in the search engine system of Eichstaedt-Diamond, Eichstaedt-Diamond would have been able to provide more accurate and reliable query results." Furthermore, Examiner asserted that "[i]t would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teachings of Fox in the system of Eichstaedt-Diamond because by implementing the specification...the users of Eichstaedt-Diamond system can now access the same retrieval system through multiple precisions algorithms giving the user more options and more control of the system." Examiner also stated that Eichstaedt-Diamond-Fox teaches "wherein the storage means is a term index data structure." Examiner further stated that Eichstaedt-Diamond-Fox teaches "wherein the group of at least one information packet comprising of at least one information packet received from a single information source," because "[t]he search processor inherently separates each stream white [sic] it checks them in order to determine the source of the matching information." With respect to claims 22, 23, 41, 42, 51, 60, 61, 76-79, 91, 92, 104-107, 130-131; 137-147, this rejection is respectfully traversed.

Three basic criteria must be met to establish a prima facie case of obviousness: (1) "there must be some suggestion or motivation...to combine reference teachings," (2) "there must be a reasonable expectation of success," and (3) the prior art references "must teach or suggest all the claim limitations." MPEP §2142.

For the reasons set forth above, Eichstaedt and Diamond do not teach or suggest all of the claim limitations, as amended. Applicants agree with Examiner that Fox teaches complex matching. However, while Applicants in no way concede that Examiner's combination of references is proper herein, even if the combination is proper, the cited combination of references – supplementing the aforementioned references with information regarding matching techniques – still does not teach or suggest all of the limitations of Applicants' claims.

In light of the foregoing remarks, Applicants respectfully request reconsideration and withdrawal of this rejection under 35 U.S.C. §103(a).

All of the claims remaining in the application are now believed to be allowable. Favorable consideration and a Notice of Allowance are earnestly solicited.

Applicants enclose herewith a Change of Correspondence Address notice and respectfully request that Examiner please direct any future correspondence in connection with this matter to the undersigned at the address associated with the Customer Number specified therein (and reprinted below).

If questions remain regarding this application, the Examiner is invited to contact the undersigned at (213) 633-6800.

Respectfully submitted,

Oren Zamir, *et al.*
DAVIS WRIGHT TREMAINE LLP

By__________________________
Seth D. Levy
Registration No. 44,869

Enclosure:

- Postcard
- Change of Correspondence Address Notice
- Petition for Extension of time (three months)
- Terminal Disclaimer with respect to pending application No. 09/655,185
- Terminal Disclaimer with respect to prior patent No. 6,799,199

865 South Figueroa Street, Suite 2400
Los Angeles, CA 90017-2566
Phone: (213) 633-6800
Facsimile: (213) 633-6899